Part 6 - Mathematical Library Methods

I)Objective Type Questions:

- What is the output of the following Math function? Math.floor(-7.7)
 - A) 8.0
 - B) 7.0
 - C) -7.0
 - D) -8.0
- 2. What is the output of the following Math function? Math.ceil(5.4) + Math.ceil(4.5)
 - A) 9.0
 - B) 10.0
 - C) 11.0
 - D) 12.0
- 3. What is the output of the following Math function? Math.ceil(-5.4) + Math.ceil(-4.5)
 - A) -9.0
 - B) -10.0
 - C) 9.0
 - D) 10.0
- 4. What is the output of the following Math function? Math.abs(Math.min(-2.84, -6.54))
 - A) -2.84
 - B) -6.54
 - C) 2.84
 - D) 6.54
- 5. What is the output of the following Math function? Math.sqrt(Math.floor(25.9))
 - A) 25.0
 - B) 5.0
 - C) 26.0
 - D) 6.0
- 6. What is the output of the following Math function?

	Math.ceil(4.5 + 4.4)
	A) 8.0 B) 9.0 C) 10.0 D) Runtime error
7.	What is the output of the following expression? Math.round(Math.abs(-0.5))
	A) 1 B) -1 C) 0 D) Runtime error
8.	Which package includes the Math class? A) Java.math B) Java.util C) Java.lang D) Java.io
9.	Which package is imported by default in a Java program? A) Java.math B) Java.util C) Java.lang D) Java.io
10.	Which statement is correct? Math.random() returns a: A) double value greater than or equal to 0.0 and less than B) int value greater than or equal to 0 and less than 1 C) double value greater than or equal to 0.0 and less than or equal to 1.0 D) int value greater than or equal to 0 and less than or equal to 1
11.	What will be the output of Math.cbrt(-64)? A) -4.0 B) 4.0 C) 0.0 D) Runtime error – we cannot use a negative number
12.	What will be the output of Math.pow(-1, 0)? A) -1.0 B) 1.0

C) 0.0

D) Runtime error – we cannot use a negative number

- 13. Which of the following is a method to find the cube root of a number?A) cubeRoot(x)B) Cbrt(x)
 - C) Math.cubeRoot(x)
 - D) Math.cbrt(x)
- 14. Which of the following is true for Math.round() method?
 - A) If the argument type is double, the return type is long.
 - B) If the argument type is float, the return type is int.
 - C) The method returns the closest int or long.
 - D) All of the above are true.
- 15. What will be the output of Math.abs(-3.1)?
 - A) -3.1
 - B) 3.0
 - C) 3.1
 - D) -3.0